

GenCore version 5.1.4.p5\_4578  
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OM protein - protein search, using sw model

Run on: March 17, 2003, 07:21:20 ; Search time 7.10687 Seconds  
(without alignments)  
78.661 Million cell updates/sec

Title: US-09-787-082-8

Perfect score: 119

Sequence: 1 GCCSNPVCHLEHSLNCTNG 19

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued\_Patents\_AA.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	102	85.7	16	1 US-08-477-383-54	Sequence 54, Appl
2	102	85.7	16	1 US-08-487-174-54	Sequence 54, Appl
3	102	85.7	16	1 US-08-480-750-54	Sequence 54, Appl
4	102	85.7	16	4 US-09-219-446B-2	Sequence 2, Appl
5	102	85.7	17	4 US-09-219-446B-3	Sequence 3, Appl
6	102	85.7	68	1 US-08-137-800-48	Sequence 48, Appl
7	102	85.7	68	1 US-08-477-383-48	Sequence 48, Appl
8	102	85.7	68	1 US-08-487-174-48	Sequence 48, Appl
9	102	85.7	68	1 US-08-480-750-48	Sequence 48, Appl
10	93	78.2	16	1 US-08-137-800-19	Sequence 19, Appl
11	93	78.2	16	1 US-08-477-383-19	Sequence 19, Appl
12	93	78.2	16	1 US-08-487-174-19	Sequence 19, Appl
13	93	78.2	16	1 US-08-480-750-19	Sequence 19, Appl
14	93	78.2	16	5 PCT-US96-07962-10	Sequence 10, Appl
15	82	68.9	16	4 US-09-219-446B-4	Sequence 4, Appl
16	58	48.7	44	4 US-09-488-799-91	Sequence 91, Appl
17	58	48.7	62	4 US-09-488-799-101	Sequence 101, Appl
18	57.5	48.3	320	4 US-09-183-861-22	Sequence 22, Appl
19	57.5	48.3	320	4 US-09-183-861-55	Sequence 55, Appl
20	57.5	48.3	320	4 US-09-022-765-22	Sequence 22, Appl
21	57.5	48.3	320	4 US-09-022-765-55	Sequence 55, Appl
22	57	47.9	16	1 US-08-137-800-15	Sequence 15, Appl
23	57	47.9	16	1 US-08-477-383-15	Sequence 15, Appl
24	57	47.9	16	1 US-08-487-174-15	Sequence 15, Appl
25	57	47.9	16	1 US-08-480-750-15	Sequence 15, Appl
26	57	47.9	18	1 US-08-137-800-32	Sequence 32, Appl
27	57	47.9	18	1 US-08-477-383-32	Sequence 32, Appl

28 57 47.9 18 1 US-08-487-174-32 Sequence 32, Appl  
29 57 47.9 18 1 US-08-480-750-32 Sequence 32, Appl  
30 57 47.9 62 4 US-09-488-799-89 Sequence 89, Appl  
31 57 47.9 65 1 US-08-137-800-46 Sequence 46, Appl  
32 57 47.9 65 1 US-08-477-383-46 Sequence 46, Appl  
33 57 47.9 65 1 US-08-487-174-46 Sequence 46, Appl  
34 57 47.9 65 1 US-08-480-750-46 Sequence 46, Appl  
35 54 45.4 19 4 US-09-136-769A-3 Sequence 3, Appl  
36 54 45.4 19 4 US-09-136-769A-14 Sequence 14, Appl  
37 54 45.4 65 4 US-09-488-799-95 Sequence 95, Appl  
38 54 45.4 589 1 US-07-668-648-2 Sequence 2, Appl  
39 54 45.4 589 2 US-08-429-998-2 Sequence 2, Appl  
40 54 45.4 589 2 US-08-431-333-2 Sequence 2, Appl  
41 54 45.4 589 5 PCT-US91-02321-2 Sequence 2, Appl  
42 51 42.9 16 2 US-08-857-068-2 Sequence 2, Appl  
43 51 42.9 16 4 US-09-219-446B-5 Sequence 5, Appl  
44 51 42.9 17 4 US-09-219-446B-6 Sequence 6, Appl  
45 50 42.0 16 2 US-08-857-068-4 Sequence 4, Appl

#### ALIGNMENTS

RESULT 1  
US-08-477-383-54  
; Sequence 54, Application US/08477383  
; Patent No. 5589340  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hilliard, David R.  
; APPLICANT: Macintosh, J. Michael  
; APPLICANT: Santos, Aneurfino S.  
; TITLE OF INVENTION: Conotoxin Peptides  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
; STREET: 1201 New York Avenue, N.W., Suite 1000  
; CITY: Washington  
; STATE: DC  
; COUNTRY: U.S.A.  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/477,383  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/137,800  
; FILING DATE: 19-OCT-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/084,848  
; FILING DATE: 29-JUN-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ihnen, Jeffrey L.  
; REGISTRATION NUMBER: 28,957  
; REFERENCE/DOCKET NUMBER: 24260-107673  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-962-4810  
; TELEFAX: 202-962-8300  
; INFORMATION FOR SEQ ID NO: 54:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 16 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:

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;; ORGANISM: Conus magus
;; FEATURE:
;; NAME/KEY: Modified-site
;; LOCATION: 16
;; OTHER INFORMATION: /note= "The C-terminus is
;; OTHER INFORMATION: amidated."
US-08-477-383-54

Query Match      85.7%; Score 102; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 6.5e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCSNPVCHLEHSLC 16
Db 1 GCCSNPVCHLEHSLC 16

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US-08-487-174-54
; Sequence 54, Application US/08487174
; Patent No. 5595972
; GENERAL INFORMATION:
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Hillyard, David R.
; APPLICANT: Macintosh, J. Michael
; APPLICANT: Santos, Ameurfino S.
; TITLE OF INVENTION: Conotoxin Peptides
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti
; STREET: 1201 New York Avenue, N.W., Suite 1000
; CITY: Washington
; STATE: DC
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,174
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/137,800
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/084,848
; FILING DATE: 29-JUN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Ihnen, Jeffrey L.
; REGISTRATION NUMBER: 28,957
; REFERENCE/DOCKET NUMBER: 24260-107673
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-962-4810
; TELEFAX: 202-962-8300
; INFORMATION FOR SEQ ID NO: 54:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Conus magus
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 16
; OTHER INFORMATION: /note= "The C-terminus is
; OTHER INFORMATION: amidated."
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US-08-487-174-54

Query Match      85.7%; Score 102; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 6.5e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 GCCSNPVCHLEHSLC 16

RESULT 3
US-08-480-750-54
; Sequence 54, Application US/08480750
; Patent No. 5633347
; GENERAL INFORMATION:
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Hillyard, David R.
; APPLICANT: Macintosh, J. Michael
; APPLICANT: Santos, Ameurfino S.
; TITLE OF INVENTION: Conotoxin Peptides
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti
; STREET: 1201 New York Avenue, N.W., Suite 1000
; CITY: Washington
; STATE: DC
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/480,750
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/137,800
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/084,848
; FILING DATE: 29-JUN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Ihnen, Jeffrey L.
; REGISTRATION NUMBER: 28,957
; REFERENCE/DOCKET NUMBER: 24260-107673
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-962-4810
; TELEFAX: 202-962-8300
; INFORMATION FOR SEQ ID NO: 54:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Conus magus
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 16
; OTHER INFORMATION: /note= "The C-terminus is
; OTHER INFORMATION: amidated."
US-08-480-750-54

Query Match      85.7%; Score 102; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 6.5e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GCCSNPVCHEHSNLC 16  
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Db 1 GCCSNPVCHEHSNLC 16  
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RESULT 4  
US-09-219-446B-2  
; Sequence 2, Application US/09219446B  
; Patent No. 6265541  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: McIntosh, J. Michael  
; APPLICANT: Yoshikami, Doju  
; APPLICANT: Cartier, G. Edward  
; APPLICANT: Luo, Siqin  
; APPLICANT: University of Utah Research Foundation  
; TITLE OF INVENTION: Uses of Alpha-Conotoxin Peptides  
; FILE REFERENCE: Uses of Alpha-Conotoxins  
; CURRENT APPLICATION NUMBER: US/09/219,446B  
; PRIOR FILING DATE: 1998-12-23  
; PRIOR APPLICATION NUMBER: US 60/080, 588  
; PRIOR FILING DATE: 1998-04-03  
; PRIOR APPLICATION NUMBER: US 60/070, 153  
; PRIOR FILING DATE: 1997-12-31  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Conus magus  
US-09-219-446B-2

Query Match 85.7%; Score 102; DB 4; Length 16;  
Best Local Similarity 100.0%; Pred. No. 6.5e-07;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCSNPVCHEHSNLC 16  
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Db 1 GCCSNPVCHEHSNLC 16  
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RESULT 5  
US-09-219-446B-3  
; Sequence 3, Application US/09219446B  
; Patent No. 6265541  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: McIntosh, J. Michael  
; APPLICANT: Yoshikami, Doju  
; APPLICANT: Cartier, G. Edward  
; APPLICANT: Luo, Siqin  
; APPLICANT: University of Utah Research Foundation  
; TITLE OF INVENTION: Uses of Alpha-Conotoxin Peptides  
; FILE REFERENCE: Uses of Alpha-Conotoxins  
; CURRENT APPLICATION NUMBER: US/09/219,446B  
; CURRENT FILING DATE: 1998-12-23  
; PRIOR APPLICATION NUMBER: US 60/080, 588  
; PRIOR FILING DATE: 1998-04-03  
; PRIOR APPLICATION NUMBER: US 60/070, 153  
; PRIOR FILING DATE: 1997-12-31  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3  
; LENGTH: 17  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:Tyr derivative  
US-09-219-446B-3

Query Match 85.7%; Score 102; DB 4; Length 17;  
Best Local Similarity 100.0%; Pred. No. 6.9e-07;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 2 GCCSNPVCHEHSNLC 17  
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RESULT 6  
US-08-137-800-48  
; Sequence 48, Application US/08137800  
; Patent No. 5514774  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: McIntosh, J. Michael  
; APPLICANT: Santos, Ameurfino D.  
; TITLE OF INVENTION: Conotoxin Peptides  
; NUMBER OF SEQUENCES: 53  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
; STREET: 1201 New York Avenue N.W., Suite 1000  
; CITY: Washington  
; STATE: DC  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WordPerfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/137,800  
; FILING DATE: 19-OCT-1993  
; CLASSIFICATION: 530  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ihnen, Jeffrey L.  
; REGISTRATION NUMBER: 28,957  
; REFERENCE/DOCKET NUMBER: 24260-104763  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-962-4810  
; TELEFAX: 202-962-8300  
; INFORMATION FOR SEQ ID NO: 48:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 68 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Conus magus  
US-08-137-800-48

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Best Local Similarity 100.0%; Pred. No. 2.6e-06;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 49 GCCSNPVCHEHSNLC 64  
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RESULT 7  
US-08-477-383-48  
; Sequence 48, Application US/08477383  
; Patent No. 5589340  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: Macintosh, J. Michael  
; APPLICANT: Santos, Ameurfino S.  
; TITLE OF INVENTION: Conotoxin Peptides

NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
STREET: 1201 New York Avenue, N.W., Suite 1000  
CITY: Washington  
STATE: DC  
COUNTRY: U.S.A.  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/477,383  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/137,800  
FILING DATE: 19-OCT-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/084,848  
FILING DATE: 29-JUN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Ihnen, Jeffrey L.  
REGISTRATION NUMBER: 28,957  
REFERENCE/DOCKET NUMBER: 24260-107673  
TELEPHONE: 202-962-4810  
TELEFAX: 202-962-8300  
INFORMATION FOR SEQ ID NO: 48:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 68 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
HYPOTHETICAL: NO  
ORIGINAL SOURCE:  
ORGANISM: Conus magus  
US-08-477-383-48

Query Match 85.7%; Score 102; DB 1; Length 68;  
Best Local Similarity 100.0%; Pred. No. 2.6e-06;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCCSNPVCHEHSLC 16  
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Db 49 GCCSNPVCHEHSLC 64

RESULT 8  
US-08-487-174-48  
Sequence 48, Application US/08487174  
Patent No. 5595972  
GENERAL INFORMATION:  
APPLICANT: Olivera, Baldomero M.  
APPLICANT: Cruz, Lourdes J.  
APPLICANT: Hillyard, David R.  
APPLICANT: Macintosh, J. Michael  
APPLICANT: Santos, Ameurfino S.  
TITLE OF INVENTION: Conotoxin Peptides  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
STREET: 1201 New York Avenue, N.W., Suite 1000  
CITY: Washington  
STATE: DC  
COUNTRY: U.S.A.  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/487,174  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/137,800  
FILING DATE: 19-OCT-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/084,848  
FILING DATE: 29-JUN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Ihnen, Jeffrey L.  
REGISTRATION NUMBER: 28,957  
REFERENCE/DOCKET NUMBER: 24260-107673  
TELEPHONE: 202-962-4810  
TELEFAX: 202-962-8300  
INFORMATION FOR SEQ ID NO: 48:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 68 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
HYPOTHETICAL: NO  
ORIGINAL SOURCE:  
ORGANISM: Conus magus  
US-08-487-174-48

Query Match 85.7%; Score 102; DB 1; Length 68;  
Best Local Similarity 100.0%; Pred. No. 2.6e-06;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCCSNPVCHEHSLC 16  
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Db 49 GCCSNPVCHEHSLC 64

RESULT 9  
US-08-480-750-48  
Sequence 48, Application US/08480750  
Patent No. 5633347  
GENERAL INFORMATION:  
APPLICANT: Olivera, Baldomero M.  
APPLICANT: Cruz, Lourdes J.  
APPLICANT: Hillyard, David R.  
APPLICANT: Macintosh, J. Michael  
APPLICANT: Santos, Ameurfino S.  
TITLE OF INVENTION: Conotoxin Peptides  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
STREET: 1201 New York Avenue, N.W., Suite 1000  
CITY: Washington  
STATE: DC  
COUNTRY: U.S.A.  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/480,750  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/137,800  
FILING DATE: 19-OCT-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/084,848

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; FILING DATE: 29-JUN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Ihnen, Jeffrey L.
; REGISTRATION NUMBER: 28,957
; REFERENCE/DOCKET NUMBER: 24260-107673
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-962-4810
; TELEFAX: 202-962-8300
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 68 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Conus magus
;
US-08-480-750-48

Query Match      85.7%; Score 102; DB 1; Length 68;
Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCSNPVCCHLEHSNLC 16
Db 49 GCCSNPVCCHLEHSNLC 64

RESULT 10
US-08-137-800-19
; Sequence 19, Application US/08137800
; Patent No. 5514774
; GENERAL INFORMATION:
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Hillyard, David R.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Santos, Ameurfin D.
; TITLE OF INVENTION: Conotoxin Peptides
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti
; STREET: 1201 New York Avenue N.W., Suite 1000
; CITY: Washington
; STATE: DC
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/137,800
; FILING DATE: 19-OCT-1993
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Ihnen, Jeffrey L.
; REGISTRATION NUMBER: 28,957
; REFERENCE/DOCKET NUMBER: 24260-104763
; TELEPHONE: 202-962-4810
; TELEFAX: 202-962-8300
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Conus magus

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; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 6..7
; OTHER INFORMATION: /note= "Xaa is Pro or Hydroxy-Pro"
US-08-137-800-19

Query Match      78.2%; Score 93; DB 1; Length 16;
Best Local Similarity 93.8%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCCSNPVCCHLEHSNLC 16
Db 1 GCCSNPVCCHLEHSNLC 16

RESULT 11
US-08-477-383-19
; Sequence 19, Application US/08477383
; Patent No. 5589340
; GENERAL INFORMATION:
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Hillyard, David R.
; APPLICANT: Macintosh, J. Michael
; APPLICANT: Santos, Ameurfin S.
; TITLE OF INVENTION: Conotoxin Peptides
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti
; STREET: 1201 New York Avenue, N.W., Suite 1000
; CITY: Washington
; STATE: DC
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,383
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/137,800
; FILING DATE: 19-OCT-1993
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Conus magus
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 6
; OTHER INFORMATION: /note= "Xaa is Pro or Hydroxy-Pro."
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 16

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; OTHER INFORMATION: /note= "The C-terminus is
; OTHER INFORMATION: preferably amidated."
US-08-477-383-19

Query Match 78.2%; Score 93; DB 1; Length 16;
Best Local Similarity 93.8%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCCSNPVCCHLEHSLC 16
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Db 1 GCCSNXVCHLEHSLC 16

RESULT 12
US-08-487-174-19
; Sequence 19, Application US/08487174
; Patent No. 5595972
; GENERAL INFORMATION:
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Hilliard, David R.
; APPLICANT: Macintosh, J. Michael
; APPLICANT: Santos, Ameurfino S.
; TITLE OF INVENTION: Conotoxin Peptides
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti
; STREET: 1201 New York Avenue, N.W., Suite 1000
; CITY: Washington
; STATE: DC
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,174
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/137,800
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/084,848
; FILING DATE: 29-JUN-1993
; NAME: Ihnen, Jeffrey L.
; REGISTRATION NUMBER: 28,957
; REFERENCE/DOCKET NUMBER: 24260-107673
; TELEPHONE: 202-962-4810
; TELEFAX: 202-962-8300
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Conus magus
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 6
; OTHER INFORMATION: /note= "Xaa is Pro or Hydroxy-Pro."
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 16
; OTHER INFORMATION: /note= "The C-terminus is
; OTHER INFORMATION: preferably amidated."

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US-08-487-174-19

Query Match 78.2%; Score 93; DB 1; Length 16;
Best Local Similarity 93.8%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCCSNPVCCHLEHSLC 16
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Db 1 GCCSNXVCHLEHSLC 16

RESULT 13
US-08-480-750-19
; Sequence 19, Application US/08480750
; Patent No. 5633347
; GENERAL INFORMATION:
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Hilliard, David R.
; APPLICANT: Macintosh, J. Michael
; APPLICANT: Santos, Ameurfino S.
; TITLE OF INVENTION: Conotoxin Peptides
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti
; STREET: 1201 New York Avenue, N.W., Suite 1000
; CITY: Washington
; STATE: DC
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/480,750
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/137,800
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/084,848
; FILING DATE: 29-JUN-1993
; NAME: Ihnen, Jeffrey L.
; REGISTRATION NUMBER: 28,957
; REFERENCE/DOCKET NUMBER: 24260-107673
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-962-4810
; TELEFAX: 202-962-8300
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Conus magus
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 6
; OTHER INFORMATION: /note= "Xaa is Pro or Hydroxy-Pro."
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 16
; OTHER INFORMATION: /note= "The C-terminus is
; OTHER INFORMATION: preferably amidated."
US-08-480-750-19

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Query Match 78.2%; Score 93; DB 1; Length 16;
Best Local Similarity 93.8%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCCSNPVCCHLEHSNLC 16
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Db 1 GCCSNXVCHLEHSNLC 16

RESULT 14
PCT-US96-07962-10
; Sequence 10, Application PC/TUS9607962
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; TITLE OF INVENTION: Use of Conotoxin Peptides U002 and M11
; TITLE OF INVENTION: for Treating or Detecting Small-Cell Lung Carcinoma
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti
; STREET: 1201 New York Avenue, N.W., Suite 1000
; CITY: Washington
; STATE: DC
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-WINDOWS
; SOFTWARE: Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/07962
; FILING DATE: 04-JUN-1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/487,174
; FILING DATE: 07-JUN-1995
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-962-4810
; TELEFAX: 202-962-8300
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Conus magus
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 6
; OTHER INFORMATION: /note= "Xaa is Pro or Hydroxy-Pro."
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 16
; OTHER INFORMATION: /note= "The C-terminus is
; OTHER INFORMATION: preferably amidated."
;
PCT-US96-07962-10

Query Match 78.2%; Score 93; DB 5; Length 16;
Best Local Similarity 93.8%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCCSNPVCCHLEHSNLC 16
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Db 1 GCCSNXVCHLEHSNLC 16

RESULT 15
US-09-219-446B-4
; Sequence 4, Application US/09219446B
; Patent No. 6265541
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; GENERAL INFORMATION:
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Yoshikami, Doju
; APPLICANT: Cartier, G. Edward
; APPLICANT: Luo, Siqin
; APPLICANT: University of Utah Research Foundation
; TITLE OF INVENTION: Uses of Alpha-Conotoxin Peptides
; FILE REFERENCE: Uses of Alpha-Conotoxins
; CURRENT APPLICATION NUMBER: US/09/219,446B
; CURRENT FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: US 60/080,588
; PRIOR FILING DATE: 1998-04-03
; PRIOR APPLICATION NUMBER: US 60/070,153
; PRIOR FILING DATE: 1997-12-31
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:FAT derivative
; OTHER INFORMATION: of C. magus M11
; US-09-219-446B-4

Query Match 68.9%; Score 82; DB 4; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00019;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCCSNPVCCHLEHSNLC 16
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Db 1 GCCSNPVCFAHSNLC 16

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